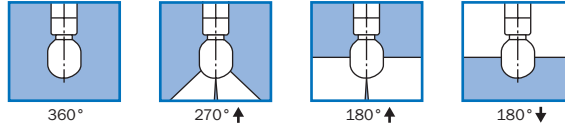


## Static Spray Heads



Static spray heads are a proven accessory for cleaning tanks and vessels. The typical area of application is for simple cleaning tasks in the low pressure range between 0.5 and 2.5 bar. It should be noted that the use of a static spray head is often based on the acquisition costs.

An exact evaluation of the various factors to be considered in making a decision is very useful:

- Tank and vessel dimensions
- Use of the tank or vessel
- Acquisition costs and cleaning time
- Operating costs (cleaning medium consumption)
- Operating costs (dimensioning of pumps and piping)
- Removal of cleaning medium from the vessel to be cleaned

All consumption specifications are for orientation only.  
The dimensions listed are in mm and are nominal dimensions.

## Technical Parameters

<b>Spray angle:</b>	360°, 270° upwards, 180° upwards, 180° downwards
<b>Materials:</b>	1.4435 (316L), 1.4571 (316Ti), 2.4602 (HC22), others: 1.4404 (316L)
<b>Connections:</b>	Clipon, threaded, welded ends
<b>Operating pressure:</b>	Cleaning medium: 0.5 - 2.5 bar / 7.3 - 36.3 psi *
<b>Working temperature:</b>	Cleaning medium: max. 230 °C / 446 °F
<b>Ambient temperature:</b>	in the container: max. 250 °C / 482 °F
<b>Volume flow rate:</b>	0.6 - 78.7 m <sup>3</sup> /h / 10 - 1311.7 l/min / 2.6 - 346.5 gpm (US)*
<b>Range:</b>	Cleaning radius: 0.25 - 3 m / 0.8 - 9.8 ft *
<b>Installation position:</b>	all

\*Depending on model and cleaning medium

### Test conditions for the consumption and range charts:

Temperature:	20 - 30 °C / 68 - 86 °F
Measuring medium:	Water
Connection:	Thread connection

The consumption values for clipon connections can be up to 30% higher depending on the size of the connection, the range values may be lower.

### The following Values for the Installation Depth are based on Experience

Type	Pressure at head (bar)	Installation depth (mm)	Weight [kg]
69M ...	0.5 - 1.5	200	0.010
69X ...	0.5 - 1.5	300	0.015
69Y ...	0.5 - 1.5	300 - 400	0.023
69A ...	1.5 - 2	500	0.050
69B ..	1 - 2.5	500 - 700	0.139
69F ...	1 - 2.5	500 - 700	0.143
69C ...	1 - 2.5	500 - 700	0.161
69D ...	1.5 - 3	600 - 800	0.353

## Consumption Data

The volume flow rate m<sup>3</sup>/h (throughput) consumption data is provided in the product tables.

## Static Spray Heads

### Notes on Selection and Placement

We recommend using a spray head with a full-spray angle of 360° for removing stubborn soiling in situations where rotating spray heads or jet cleaners are not necessary. For low levels of soiling, we recommend using a 180° spray head for spraying the upper region of the tank or vessel. The lower region is then cleaned by the outflowing cleaning medium. The installation location is the decisive factor defining whether you need a spray head with 180° upwards or downwards. It may be necessary to consider any existing internal fittings and the spray shadows resulting from these. The spray shadows may require placement of an additional spray head.

### Services

#### Measuring Report

Number of measuring points	Description	Net price/EUR
2	Roughness	25,00
3	Roughness	35,00
2	Δ-ferrite content	45,00

#### Material Certificates

Description	Net price/EUR
WAZ 3.1 - EN10204 - static spray head	15,00

#### Surface Treatment

Article no.	Description	Surcharge/EUR
... A	Surface treatment to $Ra \leq 0.5 \mu m$ (exterior)	67,00
... D	Electropolishing of static spray head (exterior), (1.4571 excluded)	59,00
... C	Electropolishing of static spray head to $Ra \leq 0.5 \mu m$ (exterior) (1.4571 excluded)	125,00

#### Article no.:

Please take the respective article number and add the corresponding treatment letter designation for example: **A** for  $Ra \leq 0.5 \mu m$  (external) or **D** or **C**.

Example: 69A2-1-0425 static spray head, 360°

Example: 69A2-1-0425**A** static spray head, 360°  $Ra \leq 0.5 \mu m$  (external)